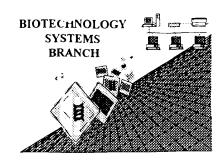
# RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/763,994
Source:	PG09
Date Processed by STIC:	2/11/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <a href="mailto:patin3help@uspto.gov">patin3help@uspto.gov</a> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

## PCT09

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DATE: 07/11/2011
                      RAW SEQUENCE LISTING
                      PATENT APPLICATION: US/09/763,994
                                                               TIME: 11:05:29
                                                                                Joes Not C. Mary
                      Input Set : A:\X-12239SeqList.app
                                                                             auterinitialismeith Cheedet
                     Output Set: N:\CRF3\07112001\I763994.raw
      3 -:110 · APPLICANT: Edmonds, Brian T.
      5 < 120 < \mathtt{TITLE} OF INVENTION: HUMAN LATENT TRANSFORMING GROWTH FACTOR-BETA BINDING
              PROTEIN 3
      5 HI30 - FILE REFERENCE: X-12239
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/763,994
C--> 11 <141> CURRENT FILING DATE: 2001-06-08
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     17 H210 - SEQ ID NO: 1
     19 -0011 · LENGTH: 3624
     19 -: 212 - TYPE: EMA
     20 - 213 - ORGANISM: Homo sapiens
     U2 K400 + SEQUENCE: 1
     3) bygggbgbag geyggggbgg ggbgbtggbb ogbgagbgbt tbaaggtggt bittigbgbbg 60
     44 qtgatotgoa agogganotg totoaagggo dagtgtoggg abagttgtoa gdagggotod 15\%
     Ib aveatgacys trutegraga gaacygobac agbacagaca cyctbacygg otocygotto 1\%
     20 agagtiggtigg tigtgoontat becattgaatg watggaggab wittgatabta gagwwaaca300
     27 typottytyto cobegykett eastgygoga ttotgobagy typopypagy aggagopyt 304
     28 gyggytacog ynygot ayg bereggbotg agbaggabag gygbbbtgtb cabaggggby 360
     79 stycogodoc tydotolygga gygdyadtot ytgyddagoa aydadyddat dtaegodytd 470
     80 caggigateg of-Gaesstee tyggeologyg gagggeolo etgeoloagea egoagootto 480
     \pm 1 atgytyceco taggeolygg acagatetea geagaagtge aggeolegee belegtygty 54%
     \pm 2 aatgtgegeg tebatbaceb goodgagged toagtobagg tybabcydat tgagagdtby 6\%
     33 allogodyaga gegelegiced of obseques degetgetgetge acceptaaget detegeledet 66\%
     \Theta eggeogrees consquagte outgggeoge typitticagg abactotype caageagoog 7M
     35 tytygoagea acceptose bygostoaes aageaggaag astystyegg tageategge 78\%
     36 actyporgyg gedagancaa gtgobacaag tytobobago tybagtabac aggagtybag 840
     37 aagobagggo otgtabytyg ggaagtgggb gotgabtgtb bobagggota baagaggott 904
     ^{\circ}b wasaqoaddo actgosugya satoxaasgag tyogoaatgo ogggoytyty togocatggt 9\%
     FM wastqootna achassingg streetatogs tytypootgos basotyyssa tagtttaggs 14.0
     40 most spegta callagereat typagadaaa obggaggaga agagbotyty totoogboty 10\,90
     41 atyagoosty aguadougty obagoadoba otyaobadob yootyaoody obagototyb 1140
     40 hydotydagog tolygdalgyd bolygggdydg ogycycbago ydegobbaab agaeggbabb 14\%
     43 yetgegitea aguagaretg edbagetggg aagggatadd acattetead eteodadeag 1200
     44 abgetbabea tebagginga gagtgabbbt tobobbbbbb bgdabbbga bgggbbabbb 15\%
     45 aagodddago aguttoogga gagdddtagd daggdtodad daddtgagga badagaggaa 11m2
     46 yaqaqaqqqq tqibbacqqa btbabbqqtq agtqaqqqaqa gqbbaqtqba gbaqaqbbab 1440
     47 washington on Adgaeses typologypod tabbodgago typicicog tooctoyood 15\%
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PATENT APPLICATION: US/09/763,994

DATE: 07/11/2001 TIME: 11:05:29

Input Set : A:\X-12239SeqList.app

Output Set: N:\CRF3\07112001\I763994.raw

57 gootgteags otygetiesy sayssagyyg ggsgggset gtegsyaegt gaaegagtge 21%058 geographical decempests destricted the statement of the 216059 acotytycoc aggyctacyc yccoycycoc gabyycogca yttycttyga tytygabyag 22.70 60 tytgaggetg gggaegtgtg tgabaatggb atbtgbagba acabgebagg atbtttbbag 22AD Wi tytpagtypp teretyycta poatotytop agygapogya gebactycga ggabattyat 2840 62 gagtigtigabt toobbiguago bigbattiggi iggtigabtigba toaatabbaa tiggobbbbac $24\cdot 3$ 63 agaigtoitt gordocaggg goatoggoty gigggiggba ggaaatgoba agabatagai 240064 gagtgeages aggaesegag estytgeett esseatgygg detychagaa estteayyge 25.066 testatytyt grytetysya tyagyyette astessasse aggassaysa egyttytyay 288066 gaggtiggago agodobadda baagaaggag tigotadetga adttojatiga dabagtijtto 2640 6% trogadagog tattggodad baabgtgadd bagbaggagt gotgotgotb totgggggdd 27%68 gyotggggog adbabtybga aatbtabbod tybbbagtot abagbtbagb ogagttbbab 2702 69 ayoototgoo dayabggaaa gggotabado daggadaada adatogtoaa otabggbato 2000 70 chagocoaco gegacatoga ogagegoatg tegeboggge oggagatetg caaggagggc 2010 71 aagtigogtiga ababybagoo tiggobabgag tigobabtigoa agbagggott obabbabgab 2940 (1) gggaacctgo tggaatgogt ggacgtggac gagtgoctgg acgagtocaa otgocggaac 30% Th gyagtgtgtg agaababgbg bygbygbtab bybbytgbbt gbabgbbbbb tgbbygagtab 3000 $^{14}$  aytocogogo agugocaytg botgagooog gaayagatgg agogtgoood ggagoggogo  $^{14}$ 75  $g_{\pm}$ egtgtget ggagobageg oggagaggan ggbatgtgeg etggebookt ggbogggbet 345%76 geooteacet tegasgasty otgotyposys sagggeegeg getyggggogo coaatgooga 3240 77 cogtigodogo ogogogogo gyggtioddat tigodogadat ogoagagoga gagdaattee 55%78 trot ${f ggaca}$  baagooddot got ${f gctgttgggg}$  aagooddaa  ${f gagatgagga}$  dagttba ${f gaga}$ 74 gaggattbag abgagtgtbg btgbgtgagt ggbbgctgog tgbbgbggbc gggbggbgbb 2400 80 gtgtgdgagt gtdddggagg attacagata gaagaataaa gogddagatg agtggatata 34%M1 qaqqaqtqqq qaqaqqtqaa qqaqqqqqqq qtqqtqtqqa agaqqqaqqq qtqqqtqaaq 3540 80 addagoggot pottopgoty ogtotycasa googgottog ogogoagody obogoacygy 3.600M3 gootgogtta abbagogbog bogo 85 -0110 - SEQ ID NO: 2 56 H. 11 / LENGTH: 1208 87 HILL TYPE: PET ## -Cll? - ORGANISM: Homo sapiens 90 -0400 - SEQUENCE: 2 Ang Gly Ala Gly Gly Gly Gly Ala Leu Ala Ang Glu Ang Phe Lys Val 14. 10  $^{14}$  Val Phe Ala Pro Mal Ile Cys Lys Arg Thr Cys Leu Lys Gly Gir Cys 25 👓 Ang Asp Ser Cys Glr. Sln Gly Ser Asn Met Thr Leu Ile Gly Glu Asn 35 98 4:)4.5 1:0 Gly His Ser Thr Asp Thr Leu Thr Gly Ser Gly Phe Arg Val Val Val  $1 \odot 1$ 55 60 163 Cys Pro Lei Pro Cys Met Ash Gly Gly Gln Cys Ser Ser Arg Ash Gln 1.6 Cys Lew Cys Pro Fro Asp Phe Thr Gly Arg Phe Cys Gln Val Pro Ala 109 Gly Gly Ala Gly Gly Gly Thr Gly Gly Ser Gly Pro Gly Leu Ser Arg 105 110 100 112 Thr Gly Ala Leu Ser Thr Gly Ala Leu Fro Fro Leu Ala Pro Glu Gly 113 115 120 115 Asp Ser Val Ala Ser Lys His Ala Ile Tyr Ala Val Gln Val Ile Ala

PATENT APPLICATION: US/09/763,994

DATE: 07/11/2001 TIME: 11:05:29

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116		130					135					140				
	Asp 145	Pro	Pro	Gly	Pro	Gly 150	Glu	Gly	Pro	Fro	Ala 153	Gln	His	Ala	Ala	Phe 160
1.71 1.2	Leu	Vál	Pro	Leu	GLy 155	Pro	Gly	Gim	Ile	Ser 170	Ala	Glu	Val	Gln	Ala 175	Pro
1.4 1.5	Pro	Pro	Val	Val 180	Astr	∵al	Arg	7/a.l	His 183	His	Pro	Pro	Hu	Al.a 19:)	Ser	7al
1			195	Arq				200					205			
1 -1		210		Leu			213					220				
1 .:	225			Leu		. 30					2.35					240
1 . 7	_	_		Asr.	245					250					255	
1 :				G1y 260					265					270		
1.1			275	Τγr				2.50								
146		.196		Asp Ile			.293					300				
144	305		_	Asr.		10					315					320
15.0				Gly	35					330					335	
155				340 Leu					345					31.0		
1 -			3,5,5	Thr				360					3665			
1 : :		371		Trp			37 €					330				
1.4	3.85			Lys		59C					395					100
167				Glr	405					410					415	
1 " c: 1 " .	211€	Leu	His	420 Pro	Ausp.	Gly	Pro	Pro	4113 Lys	Fro	Gln	Gln	Leu	451 Pro	Glu	3er
1	£,3,0		435 Gln	Alā	Pro	Pro		4 1 0 G.Lu	Aup	Thr	Glu	Glu	445 Glu	Arg	GLY	7al
	Thr	450 Thr	Asp	Ser	Pro		45f Ger	Glu	Glъ	Arg		460 Val	Gln	Glr.	Ser	
1 . :	465 Pro	Thr	Ala	Thr		470 Thr	Ero	Ala	Arg		475 Tyr	Fro	Glu	Let		180 Ser
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Arg	Pro		Pro 500	485 Pro	Thr	Мet	Arg	Trp:	490 Fhe	Leu	Fro		Le:	495 Pro	Pro
	Ser	Ārļ		Ala	Val	Glu	lle	Ala 520		Thr	Gln	Val			Thr	Asp

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input Set : A:\X-12239SeqList.app
Output Set: N:\CRF3\07112001\1763994.raw

190 Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly His Gly Glu Cys Val Pro 530 535 19% Gly Pro Pro Asp Tyr Sor Cys His Cys Asn Pro Gly Tyr Arg Ser His 5 5,5 196 Pro Glr. His Arg Tyr Cys Val Asp Val Asn Glu Cys Glu Ala Glu Pro 1.47 545 570  $1\,\%$  Cys Giy Pro Gly Arg G.y Ile Cys Met Asn Thr Gly Gly Ser Tyr Asn £80 535 I'd Cys His Cys Asn Arg Gly Tyr Arg Leu His Val Gly Ala Gly Gly Arg 5,95 600 Ser Cys Val Asp Leu Asr. Glu Cys Ala Lys Fro His Leu Cys Gly Asp 614 615 Los Gly Gly Phe Cys Ile Ash Phe Pro Gly His Tyr Lys Cys Ash Cys Tyr .14 625 6.1 635 III Pro Giy Tyr Arg Leu Lys Ala Ser Arg Pro Pro Val Cys Glu Asp Ile 645 650 655 .14 Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro Asp Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys Glm Pro Gry Pyr Arg Ser 680 645 ... Glin Gly Gly Gly Ala Cys Arg Asp Val Asr. Glu Cys Ala Glu Gly Ser  $-\hat{\mathfrak{h}}$ 69E wild Pro Cys Ser Pro Gly Trp Cys Glu Aln Leu Pro Gly Ser Phe Arg Cys 7:: ule Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro Asp Gly Arg Ser Cys Leu 725 730 HIB Asp Val Asp Glu Cys Glu Ala Gly Asp Val Cys Asp Ash Gly Ile Cys 749 MAN Ser Ash Thr Pro Gly Ser Phe Gln Cys Gln Cys Leu Ser Gly Tyr His 753 760 . Me Leu Ser Arg Asp Arg Ser His Cys Glu Asp Ile Asp Glu Cys Asp Phe 770 775 Fro Ala Ala Cys lie G.y Gly Asp Cys lie Asr. Thr Asn Gly Ser Tyr 795 790 And Cys Leu Cys Pro Gin Gly His And Leu Vai Gly Gly And Lys Cys 305 . 12 .44 G.n Asp lie Asp Glu Cys Ser Glr Asp Pro Ser Leu Cys Leu Pro His . - 1 820 -: 5 .4% Gly Ala Cys Lys Ash Leu Gln Gly Jer Tyr Val Cys Val Cys Asp Glu 8.5.5 340 845 Gly Phe Thr Pro Thr Gln Asp Gln His Gly Cys Glu Glu Val Glu Gln 850 855 2000 Pro His His Lys Clys Glu Cys Tyr Leu Ash Fhe Asp Asp Thr Val Phe 275 1866 Dys Asp Ser Val Leu Ala Thr Asr. Val Thi Gin Gln Glu Dys Cys Cys 3 4 5 ff A Ser Leu Gly Ala Sly Trp Gly Asp His Cys Glu He Tyr Pro Cys Fro 905 900 261 Val Tyr Ser Ser Ala Glu Phe His Ser Leu Cys Fro Asp Sly Lys Gly

PATENT APPLICATION: US/09/763,994

DATE: 07/11/2001 SIME: 11:05:29

Input Set: A:\X-12239SeqList.app
Output Set: N:\CRF3\07112001\I763994.raw

363 915 920 9.25 U65 Tyr Thr Gln Asp Ash Ash Ile Val Ash Tyr Gly Ile Pro Ala His Ar; U66 930 935 940 268 Asp Ile Asp Blu Cys Met Leu Phe Bly Ser Blu Ile Cys Lys Glu Bly 950 271 Lys Cys Val Ast. Thr Gla Pro Gly Tyr Glu Cys Tyr Cys Lys Gla Gly 965 970 1274 Phe Tyr Tyr Asp Sly Ash Leu Be: Glu Sys Va. Asp Val Asp Slu Sys 275 9±6 985 931 L77 Leu Asp Glu Sor Ash Cys Arg Ash Gly Val Cys Glu Ash Thr Arg Gly .77 -9.05 -10.07 -10.07URD Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala Gly Tyr Ser Pro Ala Gly 10.10 1010 1015 185 Arg Gln Cys Lea Ser Bro Gla Gla Met Gla Arg Ala Pro Gla Arg Ara 103: 264 1025 1 1.46 Asp Val Cys Trp Ser Gin Arg Gly Glu Asp Gly Met Cys Ala Gly Pro 1055 1045 1050 Let Don Ala Gly Pro Ala Don Thr Ele Asp Asp Cyc Cys Cys Arg Gln Gly .geo 1066 1065 1075 DUD Arg Gly Tep Gly Ala Bln Dys Arg Pro Dys Pro Pro Arg Gly Ala Gly 136 1075 1085 1085 195 Sor His Cys Pro Thr Sor Glr Ser Glu Ser Ash Sor Phe Trp Asp Tho 1100 1095 CDW Ser Pro Lou Lou Cou Gly Lys Pro Pro Ang Asp Glu Asp Ser Ser Glu 1115 199 1105 111 30% Glu Asp Sen Asp Glu Cys Arg Cys Val Sen Gly Ang Cys Val Pro And 1130 1135 1115 304 Pro Gly Gly Ala Mal Cys Glu Cys Fro Gly Gly Phe Gln Leu Asp Ala 1140 1145 407 Ser Arg Aia Arg Cys Val Asp Ile Asp Glu Cyc Arg Glu Leu Ash Gln 1160 1155 1165 310 Arg Gly Lau Leu Cys Lys Ser Glu Arg Cys Val Ash Thr Ser Gly Sen 711 1170 1180 Fig Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg Ser Arg Pro His Gly ₹14 1135 11.00 11.95 12.00 din Ala Cys Val Pro Gin Arg Arg Arg  $\mathbb{R}^{100} \times \mathbb{C}[10] \times \mathbb{SE}[2]$  ID NO: 321 3211 LENGTH: 3771 LL KL12 TYFE: DNA a. Padli3 - ORGANISM: Homo capiens  $3.0 \pm 400 \times \text{SEQUENCE:} 3.$  $x,\,\phi$  agggyagaay gayyggygagg ygagatygaa agagaqagat taaagytggt atttgagaag 60arphi orthanologia ageographic tercaaggge cagtotogge acagtotoe geaggenee 120 $\ell, \, \ell$  aacatgaege teateggaga gaaeggeeae ageaeagaea egeteaeggg eteeggette 180L. Pagagtagtagy tytydobotot recatgoaty aatygogdoo agogotooto gogaaaccag 240  $x\leftrightarrow$  typotytyte ocoegyactt bastygycyc ttotyccayy tycceycayy aggagecyyt 3003% gggggtaccy geggetbagg beceggeetg ageaggaeag gggeeetgte caeaggggeg 360

332 stgesgesss tggstssgga gggegastet gtggddagda agsaegddat ctaegddgtd 420

09/763,994 6

<210> 6 <211> 1257 <212> PRT <213> Homo sapiens

<220> <223> Xaa = any amino acid encoding codon or nonsense \\\( \aa \) \( \cd \) represent the color of the color of the colors codon

<400> 6

a honsere wdon -

it can only requirent un actival amero and

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/763,994

DATE: 07/11/2001 TIME: 11:05:30

Input Set : A:\X-12239SeqList.app

Output Set: N:\CRF3\07112001\1763994.raw

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:496 M:258 W: Mandatory Feature missing, <221 - not found for SEQ ID#:6 L:496 M:258 W: Mandatory Feature missing, <222 - not found for SEQ ID#:6

L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6